FUTURE FISHERIES IMPROVEMENT PROGRAM GRANT APPLICATION

(please fill in the highlighted areas)

1.	AP	PLICANT INFORMATION
	A.	Applicant Name: Carl Johnson
	-	
	B.	Mailing Address: 911 Tumbleweed Lane
	C.	City: Deer Lodge State: MT Zip: 59722
		Telephone: 406-846-1378
	D.	Contact Person: Will McDowell, Watershed Restoration Coalition
	D.	VVIII MCDOWEII, VVAIEISIIEU RESIDIATION COAIIIION
		Address if different from Applicant: 1002 Hollenback Rd.
		City: Deer Lodge State: MT Zip: 59722
		Telephone: 406 206 7746
		Telephone: 406-396-7716
		Landowner and/or Lessee Name
	E.	(if other than Applicant):
		Mailing Address:
		Mailing Address:
		City: State: Zip:
		Telephone:
II.	PRO	OJECT INFORMATION*
•••		
	A.	Project Name: Johnson Diversion Replacement
		River, stream, or lake: Racetrack Creek, Clark Fork River drainage
		Location: Township T10N Range R7W Section 12
		Location: Township 110N Range R7VV Section 12
		County: Powell County
	В.	Purpose of Project:
		The purpose of this project is to replace a rustic irrigation diversion which blocks upstream fish passage in low water and entrains salmonids, with a folding diversion and fish screen. This project
		will benefit fluvial brown trout, mountain whitefish, westslope cutthroat and other native fish in an
		FWP high-priority restoration watershed.
	L	
	C.	Brief Project Description:

The Johnson Diversion is located in lower Racetrack Creek above the Interstate Highway 90 and just below Yellowstone Trail. Replacing this diversion, as part of a larger fish passage/in-stream flow scheme for lower Racetrack, could dramatically improve habitat access and reduce late summer mortality for salmonids throughout the lower six miles of this watershed. This diversion is located approximately two miles above the confluence of Racetrack with the Clark Fork River. Lower Racetrack Creek is one of the most productive fluvial brown trout spawning areas in the entire Upper Clark Fork drainage. Mountain whitefish and other salmonids (including bull trout through at least the 1980s) also use the Racetrack drainage.

Opening new habitat to salmonids in late summer and fall could increase trout mobility and access to groundwater-fed temperature refuges near the Interstate Highway when dewatering and temperature stress peak in July/August, reducing trout mortality during that period, and also open new areas to brown trout spawning in October/November. According to an inventory by Trout Unlimited in 2010, three irrigation fish passage barriers currently exist which restrict salmonid mobility in the lower watershed. The lowest blocking structure, the Evan Johnston diversion, will be replaced in fall 2013 with a fish ladder and folding wooden diversion.

The Carl Johnson diversion is the next barrier upstream. This dam consists of T-posts and tarps and sections of tin roof sealed with plastic sheeting and tarps. A makeshift headgate of logs and tarps controls ditch flow. In high flows. Some larger fish may be able to scale the Johnson diversion, but it would require a jump of more than two vertical feet from a shallow riffle below the diversion—smaller fish are excluded by the tarps. The Johnson diversion has also been shown to entrain brown trout. The new diversion would be a folding diversion with Denil fish ladder and a screw-type headgate, with a flat-plate fish screen and fish return. This new diversion would be folded down in late summer or early fall when the Johnson water right goes out of priority.

The next diversion upstream is the Berg Diversion. Modifying the E. Johnston, C. Johnson (this project) and Berg Diversions will open the lower six miles of Racetrack Creek to movement of salmonids throughout the year. The WRC and partners are also in conversations with J. Berg to modify his diversion, which often takes a majority of the stream's flow for fish passage. The CF Coalition, a WRC partner, has purchased a 433 ac-ft storage water right in Racetrack Lake which will be converted to in-stream flow to relieve the current dewatering crisis below the Berg diversion, where numerous trout are often trapped in isolated pools in August.

The WRC will work closely with the Natural Resource Conservation Service (NRCS) and Trout Unlimited to execute this project. Carl Johnson applied to the NRCS for EQIP funding for this project, and it was rated highly in 2012. Mr. Johnson ultimately did not sign a contract due to a need for match funding. Mr. Johnson needs some more match funding to afford the diversion upgrade, and has reapplied to NRCS this year. The Future Fisheries grant would provide the match funding to allow this project to go forward in 2014.

	D.	Length of stream or size of lake	e tha	at will be treated:	Racetrack	k Creek is 23 miles long.								
	E.	Project Budget:												
Gran	t Re	quest (Dollars):	\$	12,500										
		ion by Applicant (Dollars): \$_of government employees <u>are r</u>	700 ot c		ing contribu	In-kind tions)	\$	800						
		on from other Sources (Dollars		\$ <mark>14,300.</mark> late)		In-kind	\$	6800						

Total Project Cost:

- \$ 34,300
- F. Attach itemized (line item) budget see template
- G. Attach specific project plans, detailed sketches, plan views, photographs, maps, evidence of landowner consent, evidence of public support, and/or other information necessary to evaluate the merits of the project. If project involves water leasing or water salvage complete supplemental-questionnaire (fwp.mt.gov/habitat/futurefisheries/supplement2.doc).
- H. Attach land management and maintenance plans that will ensure protection of the reclaimed area.

III. PROJECT BENEFITS*

A. What species of fish will benefit from this project?:

Brown trout, mountain whitefish, westslope cutthroat trout (not pure strain), longnose sucker, slimy sculpin.

B. How will the project protect or enhance wild fish habitat?:

The project will enhance wild trout habitat by providing upstream and downstream fish passage between the lower and middle portions of Racetrack Creek drainage. It is part of an integrated fish passage, habitat and in-stream flow restoration effort on Racetrack Creek involving WRC, Clark Fork Coalition, Trout Unlimited and landowners.

C. Will the project improve fish populations and/or fishing? To what extent?:

We expect the project to reduce mortality of trout during high water temperature stress conditions in late summer, and improve access of fluvial brown trout to under-utilized spawning grounds in middle Racetrack Creek. In combination with associated passage and in-stream flow projects, the impact on populations could be substantial.

D. Will the project increase public fishing opportunity for wild fish and, if so, how?:

We hope to see an increase in fluvial brown trout utilization of this reach of Racetrack Creek for spawning. This could increase brown trout populations in the Upper Clark Fork since Racetrack Creek is such an important spawning stream for fluvial browns. Limited habitat in lower Racetrack (due to barriers) has led to superimposition of redds in the past.

E. If the project requires maintenance, what is your time commitment to this project?:

The landowner, Carl Johnson, will do all needed maintenance on the project. He is familiar with the maintenance of irrigation diversion structures and headgates and flat-plate fish screens. Carl has visited other projects in the area with flat-plate fish screens.

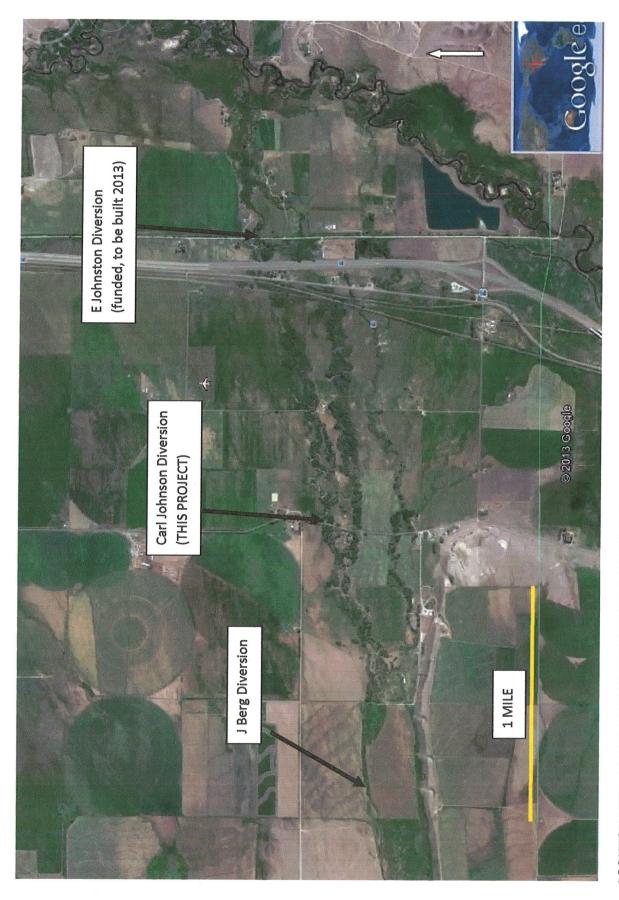
What was the cause of habitat degradation in the area of this project and how will the project correct the cause?:

Racetrack Creek has very good water quality and good to excellent habitat in its lower six miles. The main limitations are dewatering in mid- to late summer and elevated water temperatures. Since other projects are addressing the in-stream flow issue, this project will build on those efforts by providing fish passage to access all of the habitat features for two miles upstream (to Berg diversion) and downstream to the groundwater-fed lower portion of the creek (cold water refuge habitat).

G.	What public benefits will be realized from this project?:
	The public can benefit from better survival of resident brown trout and other salmonids and native
	fish in the lower Racetrack watershed, and from potential improved production of fluvial brown trout
	which are accessing a larger habitat area.
H.	Will the project interfere with water or property rights of adjacent landowners? (explain):
	No.
,	
	Will the project regult in the development of commercial reproctional use on the cite? (combain)
I.	Will the project result in the development of commercial recreational use on the site?: (explain): No. The water right holder, C. Johnson, irrigates from Racetrack Creek, but his property does not
· ·	actually bound Racetrack Creek at any point.
J.	Is this project accompand with the real emotion of past mining activity?
J.	Is this project associated with the reclamation of past mining activity?:
	No.
Each ann	proved project an experience extensists a smitter account with the December 15 to
	proved project sponsor must enter into a written agreement with the Department specifying duration of the project.
Cimo an	a datation of the project.
IV. AUT	THORIZING STATEMENT
I (w	e) hereby declare that the information and all statements to this application are true, complete, and
	urate to the best of my (our) knowledge and that the project or activity complies with rules of the
Futu	ure Fisheries Improvement Program.
Applicant	Signature: Carl a. Johnson Date: 5-31-13
Sponsor (if applicable):
*Highligh	ted boxes will automatically expand.
Mail To:	Montana Fish, Wildlife & Parks
Maii 10.	Habitat Protection Bureau
	PO Box 200701
	Helena, MT 59620-0701
	Incomplete or late applications will be returned to applicant.

Applications may be rejected if this form is modified.

Applications may be submitted at anytime, but must be received by the Future Fisheries Program office in Helena before December 1 and June 1 of each year to be considered for the subsequent funding period.



LOCATION MAP: LOWER RACETRACK CREEK DIVERSIONS/ Fish Passage Barriers

P.O. Box 25 Anaconda, MT 59711 Phone: (406) 563-7435

E-mail: <u>ilindstrom@mt.gov</u>

May 31, 2013

Montana Fish, Wildlife & Parks
Future Fisheries Program, Attn: Mark Lere
PO Box 200701
Helena, MT 59620

RE: Support for Johnson Diversion Replacement and Fish Screen Project on Racetrack Creek

I would like to offer my support for the Johnson Diversion Replacement Project on Racetrack Creek proposed by Carl Johnson and the Clark Fork Coalition. Based on recent studies conducted by FWP in coordination with the Natural Resource Damage Program, Racetrack Creek has been identified as a high priority stream for fishery restoration. It is a major tributary to the upper Clark Fork River and the lower reaches provide important spawning and rearing habitat for brown trout and other sport and native fish species. Recent radio telemetry work has documented a number of radio tagged brown trout spawning in the lower reach of Racetrack Creek near where this project would take place. Protecting fish from entrainment as well as providing for fish passage is very important in this reach of the stream. I encourage you to support this application. Please feel free to contact me with any questions.

Sincerely,

Jason Lindstrom

Upper Clark Fork Fisheries Biologist

Montana Fish, Wildlife & Parks



Casey Hackathorn

Upper Clark Fork Project Manager

May 31, 2013

To:

Mark Lere

MFWP

Habitat Protection Bureau

Box 200701

Helena, MT 59620-0701

RE: Letter of Support for Johnson Diversion Replacement Project

Trout Unlimited supports the project objectives of improving fish passage and reducing ditch entrainment on lower Racetrack Creek. Replacing the irrigation diversion identified in this project is an important step toward providing year-round fish passage on Racetrack Creek. Racetrack Creek is a key tributary in the Upper Clark Fork watershed that has significant potential for increasing recruitment of both native and non-native sport fish to the Upper Clark Fork River.

Thank you for your consideration.

Sincerely,

Casey Hackathorn

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS (Revised 5/31/2013)

					/		
WORK ITEMS		TIND				CONTRIBUTIONS	JTIONS
(ITEMIZE BY CATEGORY)	NUMBER OF UNITS	DESCRIPTION	COST/UNIT	TOTAL COST	FUTURE FISHERIES REQUEST	IN-KIND SERVICES	IN-KIND CASH
Personnel							
Survey		1 days	\$400.00	\$ 400.00		400.00	
Design		5 days	\$400.00	\$ 2,000.00		2,000.00	
Engineering	3	3 days	\$400.00	\$ 1,200.00		1,200.00	
Permitting	2	2 days	\$400.00	\$ 800.00		800.00	
Oversight	4	4 days	\$400.00	\$ 1,600.00		1,600.00	
Labor		5 days	\$160.00	\$ 800.00		800.00	
Travel							
Mileage							
Per diem				·			
Construction Materials	iterials						
Wood diversion dam	_	1 unit	\$12,000.00	\$ 12,000.00	6,000.00	,	6.000.00
Headgate and fish ladder		1 unit	\$6,000.00	8,000.00	2.500.00		3.500.00
18" Screw gate	-	1 unit	\$2,000.00				2.000.00
Fish screen	-	1 unit	\$7,500.00		4,000.00		3,500.00
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			TOTALS	\$ 34,36000	\$ of 3 12,500.00	\$ 6,800.00	\$ 15,000.00

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS (Revised 5/31/2013)

*Units = feet, hours, inches, lump sum, etc.

CONTRIBUTOR	N-KIN	IN-KIND SERVICE	IN-KIND CASH	SASH	TOTAL	
NRCS EQIP	69	3,600.00	49	8	\$ 17	17.900.00
WRC	69	2,400.00	မာ		8	2,400.00
Carl Johnson, applicant	ક્ક	800.00	€9	700.00	8	1,500.00
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TOTAL:	ક્ક	6,800.00	*	15,000.00	\$ 21	21,800.00

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS (Revised 5/31/2013)

_		NRCS	NRCS	NRCS	WRC	WRC	Johnson				EQIP	EQIP	700 Johnson 1300 EQIP	EQIP				-															
	TOTAL	400.00	2,000.00	1,200.00	800.00	1,600.00	800.00	3			12,000.00	6,000.00	_	7,500.00	1		ı	•		L		1	t	ı	•	1	1	1	1	•	•	•	34,300.00
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